APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Porri, Lido, and Carbonaro, A.
CRYSTALLINE ORGANOMETALLIC COMPLEXES CONTAINING ALUMINUM AND COBALT HAVING STEREOSPECIFIC CATALYTIC PROPERTIES. [1961]
6p. 2 refs.
Order from SLA $1.10
61-18845

Trans. of Accad[emia] Naz[iona]l [e del] Lincei. Classe [di] Sci[enze] Fis[iche] Mat[ematiche] e Nat[urali]. Rendiconti (Italy) 1960, v. 29 [no. 5] p. 491-496.
Another trans. is available from CTS (Chem) $9.60 as CTS (Chem)-221, 1961, 2400 words.

DESCRIPTORS: *Metalorganic compounds, *Complex compounds, *Aluminum compounds, *Cobalt compounds, Chemical reactions, Catalysts, Catalysis, Synthesis, Chemical properties.

(Chemistry--Organic, TT, v. 7, no. 1) (over)

61-18845

I. Natta, G.
II. Porri, L.
III. Carbonaro, A.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Mazzanti, G. and others.
LINEAR ISOTACTIC HIGH POLYMERS OF ACETALDEHYDE. [1960] 9p.
Order from ATS $11.00 ATS-30M45I

Trans. of Accad[emia] Naz[iona]l [e del] Lincei. Classe [di] Sci[enze] Fiziche, Matematiche e Nat[urali]. Rend[iconti] (Italy) 1960, v. 28, no. 1, p. 8-17.

ATS-676-TJ

(Chemistry--Organic, TT, v. 5, no. 2)

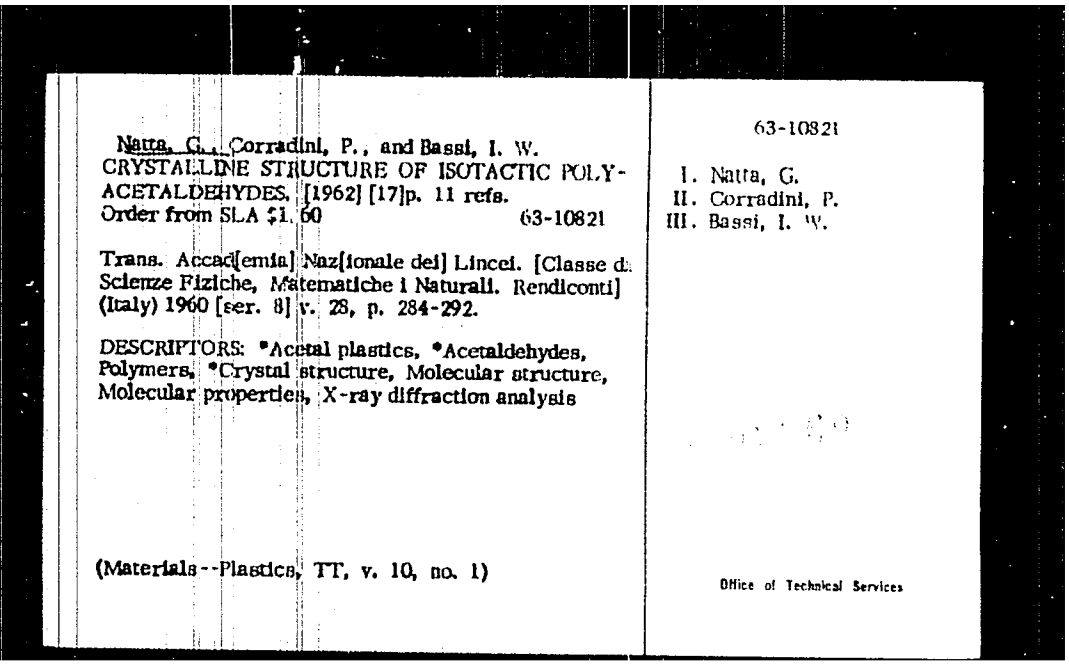
61-12093

1. Acetaldehyde--Polymerization
2. Title: Isotactic polymers
I. Natta, G.
II. Mazzanti, G.
III. ATS-30M45I
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8



Natta, G., Corradini, P., and Bassi, I. W.
CRYSTALLINE STRUCTURE OF ISOTACTIC POLY-ACETALDEHYDES. [1962] [17]p. 11 refs.
Order from SLA $1.60 63-10821

Trans. Accad[emia] Naz[ionale dei] Lincei. [Classe di Scienze Fiziche, Matematiche i Naturali. Rendiconti] (Italy) 1960 [ser. 8] v. 28, p. 284-292.

DESCRIPTORS: *Acetal plastics, *Acetaldehydes, Polymers, *Crystal structure, Molecular structure, Molecular properties, X-ray diffraction analysis

(Materials--Plastics, TT, v. 10, no. 1)

63-10821

I. Natta, G.
II. Corradini, P.
III. Bassi, I. W.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Ercoli, R., and Calderazzo, F.
SYNTHESIS OF AROMATIC-CHROMIUM-TRICARBONYL COMPOUNDS [Sintesi di Arene-Cromo-Tricarbonili]. [1963] 10p
Order from K-H $10.00 K-H 8254

Trans. of la Chimica e l'Industria (Italy) 1958, v. 40, no. 4, p. 287-289.
Another trans. is available from SLA mi$1.80, ph$1.80 as 61-10700 [1961] 9p.

DESCRIPTORS: *Metalorganic compounds, Synthesis (Chemistry), Benzen derivatives, *Chromium compounds, *Carbonyl radicals, *Benzenes, *Toluenes, *Xylenes, *Naphthalenes, *Benzoates.

For abstract see Technical Translations 5: 546, 1961.

(Chemistry--Organic, TT, v. 10, no. 11)

63-22467

I. Title: Arene chromotricarbonyls
II. Natta, G.
III. Calderazzo, F.
IV. K-H-8254
V. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Distribution of the Monomeric Units in Ethylene-Propylene Copolymers, by G. Natta, G. Mazzanti, 23 pp.

ITALIAN, per, Chimica d l'Industria, Vol XLII, No 2, 1960, pp 125-132.

SLA 60-16775

Sel

190,054

Mar 62

Vol IV, No 6

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Di-Isotactic Polymers, by G. Natta, M. Farina, M. Peraldo.

ITALIAN, per, Chimica Industria, Vol XLII, No 3, 1960, pp 225-259.

CZS(Chem)-120

Sci
26 May 62
Vol. IV, No 8

198, 243

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Beati, E. and others.
GRAFT POLYMERS: POLYSTYRENE GRAFTED ON POLYBUTENE. [1961] 10p. 4 refs.
Order from SLA $1.10 61-16703

Trans. of [Is] Chimica e [l']Industria (Italy) 1960, v. 42, no. 4, p. 348-352.
Another translation is available from CTS(Chem) $10.80 as CTS(Chem)-129 [1960] 10p.

DESCRIPTORS: *Polymers, *Butenes, *Styrenes, Polymerization.

For abstract see Technical Translations 4: 313, 1960.

(Chemistry--Organic, TT, v. 6, no. 5)

61-16703

1. Title: Graft polymers
I. Natta, G.
II. Beati, E.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Polymerizations Promoted by Metal Amides and Their Stereospecificity, by G. Natta, G. Mazzanti, 16 pp.

ITALIAN, per, Chimica e l'Industria, Vol XLII, No 5, 1960, pp 457-462.

CTS(Chem)-133

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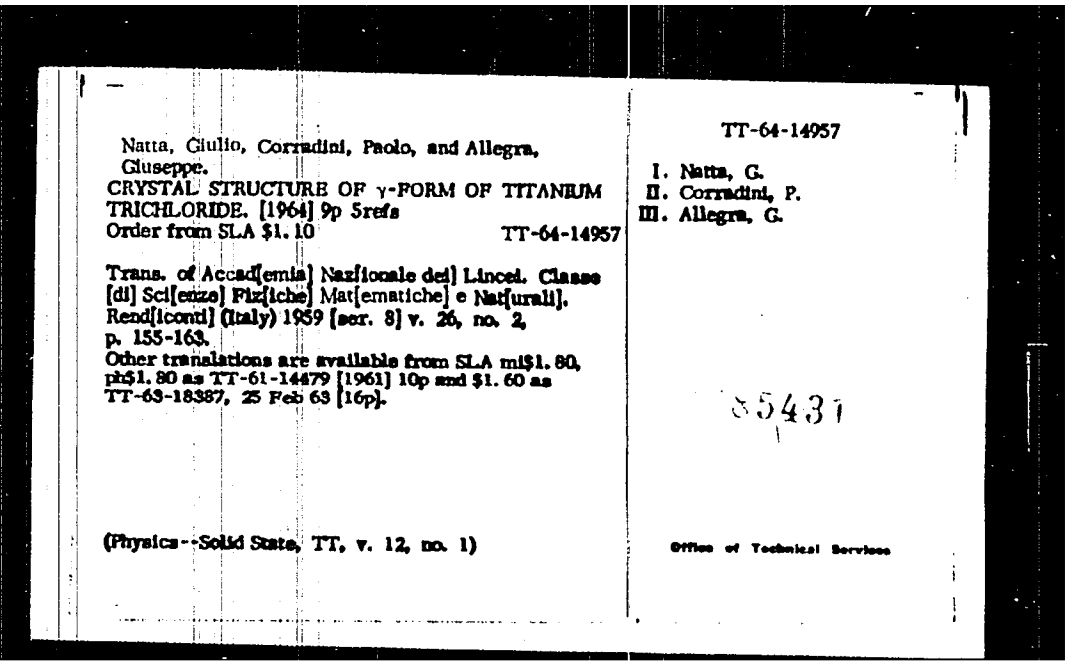
190,056

Vol IV, No 6

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8



Natta, Giulio, Corradini, Paolo, and Allegra, Giuseppe.
CRYSTAL STRUCTURE OF γ-FORM OF TITANIUM TRICHLORIDE. [1964] 9p 5refs
Order from SLA $1.10 TT-64-14957

Trans. of Accad[emia] Nazl[ionale dei] Lincei. Classe [di] Sci[enze] Fiz[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1959 [ser. 8] v. 26, no. 2, p. 155-163.
Other translations are available from SLA mi$1.80, ph$1.80 as TT-61-14479 [1961] 10p and $1.60 as TT-63-18387, 25 Feb 63 [16p].

(Physics--Solid State, TT, v. 12, no. 1)

TT-64-14957

I. Natta, G.
II. Corradini, P.
III. Allegra, G.

35431

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Pasquon, I., and Dente, M.
CALCULATION OF MOLECULAR WEIGHT DISTRIBUTION IN SLOW POLYMERIZATIONS. I. AVERAGE DEGREES OF POLYMERIZATION FOR POLYMERS OBTAINED IN PROCESSES CHARACTERIZED BY TERMINATION THROUGH CHAIN TRANSFER WITH MONOMER. May 62, 5200 words, 10 refs.
Order from CTS(Chem) $20.80 CTS(Chem)-272
subsequent copies $3.50/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962, v. 44, no. 1, p. 1-9.

DESCRIPTORS: *Polymers, Polymerization, *Molecular weight, Distribution, *Statistical functions, Numerical analysis, Differential equations.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17339

I. Natta, G.
II. Pasquon, I.
III. Dente, M.
IV. Title: Average ...
V. CTS(Chem)-272
VI. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G. and Corradini, P.
GENERAL ASPECTS OF THE CRYSTALLINE STRUCTURE OF STEREOREGULAR POLYMERS. Communication presented at the National Congress of Chemistry (no. 9) held jointly with the Swiss Chemical Society, Naples, 27 May-9 June 62. [1963] 9000 words, 53 refs. Order from CTS(Chem) $36.00 CTS(Chem)-334 subsequent copies $6.00/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1963, v. 45, no. 3, p. 299-314.

DESCRIPTORS: *Polymers, *Stereochemistry, *Crystal structure, Molecular isomerism, Molecular structure, Physical properties, *Plastics, Rubber, *Synthetic rubber, *Fibers

(Chemistry--Physical, TT, v. 10, no. 2)

63-17434

I. Title: Stereoregular polymers
I. Nata, G.
II. Corradini, P.
III. Title: National...
IV. Title: Swiss...
V. CTS(Chem)-334
VI. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Mazzanti, G. and others.
A PATENT ON ORGANOMETALLIC COMPLEXES.
[1961] 7p.
Order from ATS $9.75 ATS-51N51F

Trans. of Belgian patent 586, 481 (1960 ?).
Another translation is available from TTIS $14.00 as TTIS-N. S. 6, 1960, 2300 words.

DESCRIPTORS: *Metalorganic compounds, *Complex compounds, Synthesis, Polymerization, Catalysts

(Chemistry--Organic, TT, v. 6, no. 3)

61-22647

I. Natta, G.
II. Mazzanti, G.
III. Patent (Belgium) 586 481
IV. ATS-51N51F
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Heteroblock Copolymers and the Process for Their Preparation, by Giulio Natta, Ettore Giachetti, Italo Pasquon, 2 pp.

ITALIAN, Patent Appl No 6083, 18 Apr 1958; Patent Appl No 9042, 12 Jun 1958.

CIA/FDD XX-9802
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem
Apr 60
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Pasquon, I., and Dente, M.
CALCULATION OF MOLECULAR WEIGHT DISTRIBUTION IN SLOW POLYMERIZATIONS. II. DISTRIBUTION CURVES FOR POLYMERS OBTAINED IN PROCESSES CHARACTERIZED BY TERMINATION THROUGH CHAIN TRANSPER WITH MONOMER.
May 62, 3700 words, 6 refs.
Order from CTS (Chem) $11.80 CTS (Chem)-273
subsequent copies $2.50/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962, v. 44, no. 1, p. 10-17.

DESCRIPTORS: *Polymers, *Polymerization, *Molecular weight, Distribution, *Statistical functions, Numerical analysis, Partial differential equations.
(See also CTS(Chem)-272)

(Chemistry--Organic, TT, v. 8, no. 2)

62-17340

I. Natta, G.
II. Pasquon, I.
III. Dente, M.
IV. Title: Distribution ...
V. CTS(Chem)-273
VI. Chemical Translating Service, Palo Alto, Calif.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Stereospecific Polymerization of Vinyl Aromatic Monomers. IV. Reactivity of the Monomers in the Overall Process, by G. Natta F. Danusso, et al, 20 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XLI, No 10, 1959, pp 968-974.

SLA 60-14211

Sci
OTS, Vol III, No 8
Apr 61

145, 119

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Stereospecific Polymerizations of Conjugated Diolefins. V. The Preparation and Properties of Isotactic 1,2-Polybutadiene, by G. Natta, L. Porri.

ITALIAN, per, Chimica Industria, Vol XLI, No 12, 1959, pp 1163-1169.

CTS(Chem)-103

Sci
26 May 62
Vol IV, No 8

198, 218

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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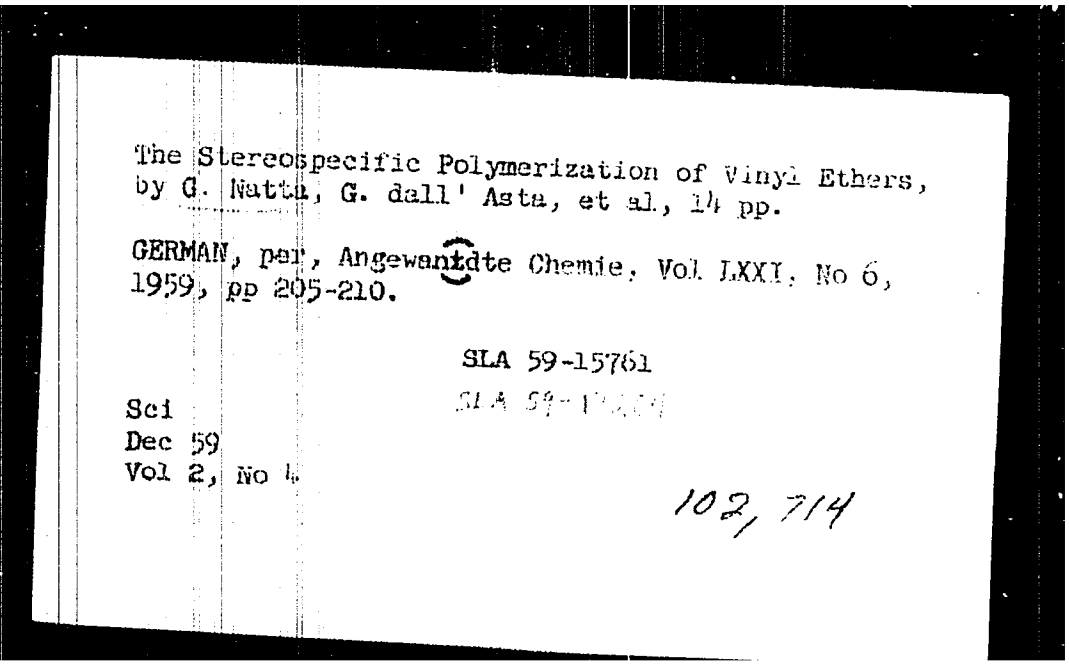

The Stereospecific Polymerization of Vinyl Ethers, by G. Natta, G. dall' Asta, et al., 14 pp.

GERMAN, per, Angewandte Chemie, Vol LXXI, No 6, 1959, pp 205-210.

SLA 59-15761

Sci
Dec 59
Vol 2, No 4

102, 714

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

A New Crystallisable Organo-Metallic Complex Containing Titanium and Aluminium and Its Catalytic Properties in the Polymerisation of Olefinnes, by G.Natta, et al.

ITALIAN, per, Atti Accademia Nazionale dei Lincei, Vol XXVI, No 2, 1959, pp 150-154.

CSIRO

CMcl - Biol
Jul 62

207, 441

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, Giulio, Corradini, Paolo, and Allegra, Giuseppe.
THE CRYSTALLINE STRUCTURE OF THE γ FORM OF TITANIUM TRICHLORIDE. [1961] 10p. (3 figs. 2 tables omitted).
Order from SLA mi$1.80, ph$1.80 61-14479

Trans. of Accad[emia] Naz[iona] l[e dei] Lincei. Classe [di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1959, [ser. 8] v. 26, p. 153-163.

The γ form presents a remarkable structural analogie with the α form, which justifies the color (violet), the density and the closely analogous chemical behavior.

(Physics--Solid State, TT, v. 5, no. 12)

61-14479

1. Titanium chlorides--Crystal structure
I. Natta, G.
II. Corradini, P.
III. Allegra, G.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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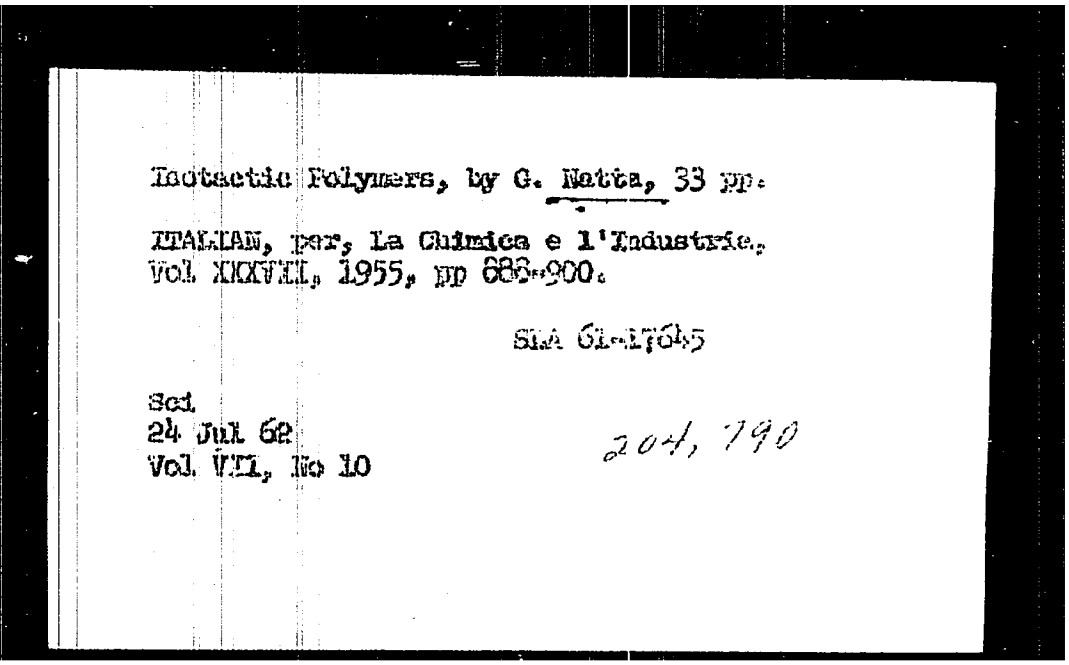

Isotactic Polymers, by G. Natta, 33 pp.

ITALIAN, per, La Chimica e l'Industrie,
Vol XXXVII, 1955, pp 683-700.

SIA 61-1705

Sci
24 Jul 62
Vol VII, No 10

204, 190

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Stereospecific Polymerization of Acetylene, by G. Natta, G. Mazzanti, P. Corradini, 15 pp.

ITALIAN, per, Accad Naz Lincei Classe di Sci Fiz, Mat e Nat Rend, Ser 8, Vol XXV, No 1/2, 1958, pp 3-12.

SLA 59-15708

Sci
Dec 59
Vol 2, No 5

103,591

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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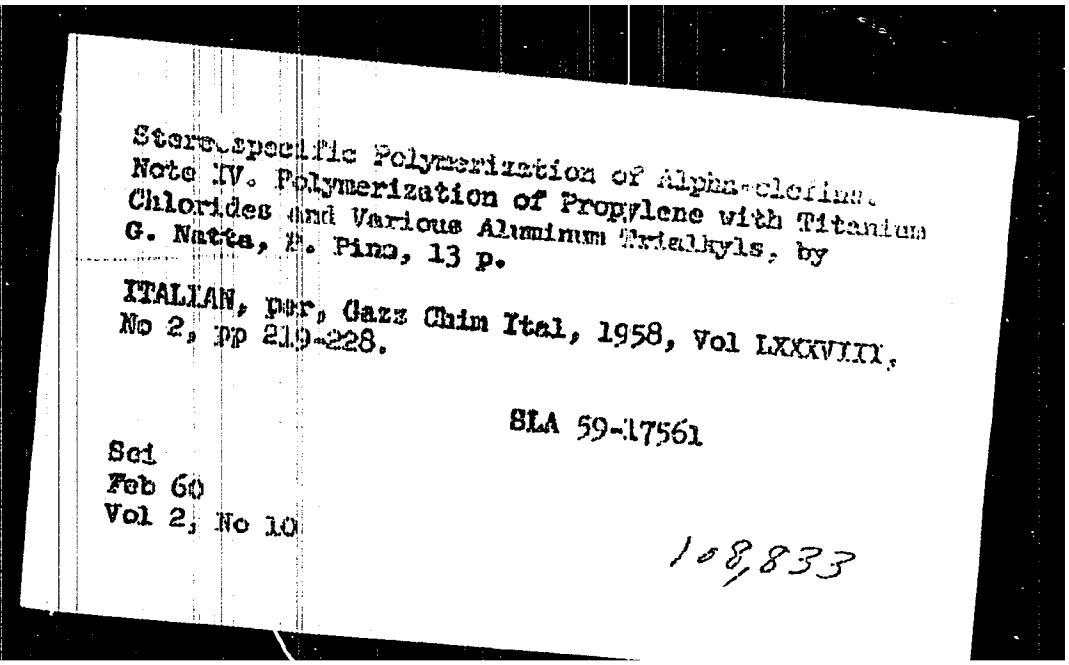

Stereospecific Polymerization of Alpha-olefins.
Note IV. Polymerization of Propylene with Titanium
Chlorides and Various Aluminum Trialkyls, by
G. Natta, P. Pino, 13 p.

ITALIAN, per, Gazz Chim Ital, 1958, Vol LXXXVIII,
No 2, pp 219-228.

SLA 59-17561

Sci
Feb 60
Vol 2, No 10

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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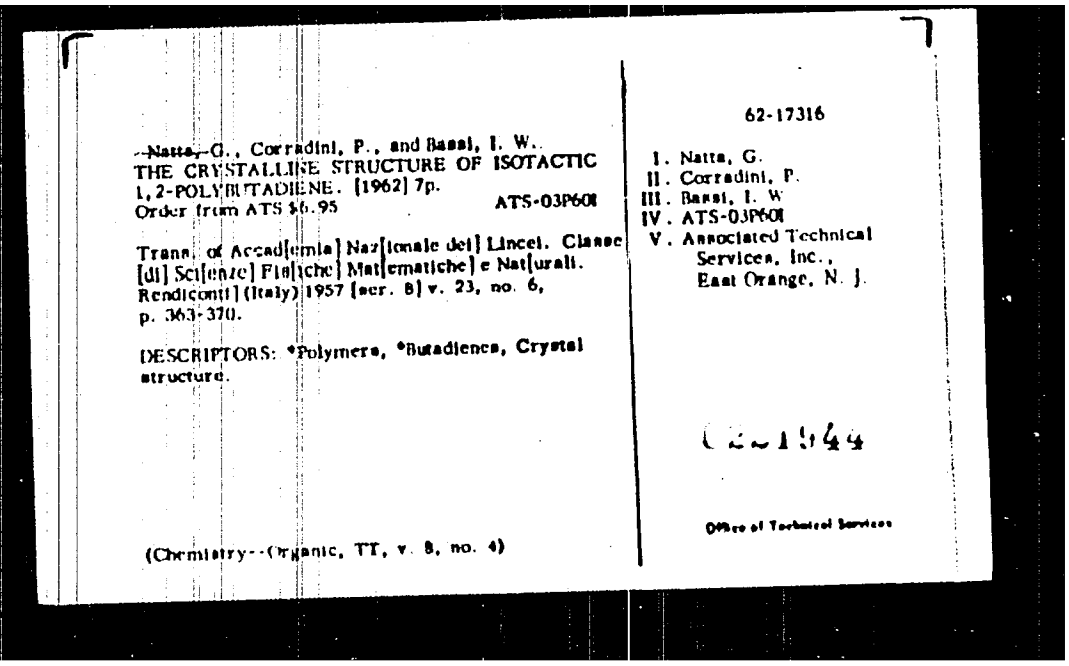

Natta, G., Corradini, P., and Bassi, I. W.
THE CRYSTALLINE STRUCTURE OF ISOTACTIC 1,2-POLYBUTADIENE. [1962] 7p.
Order from ATS $6.95 ATS-03P601

Trans. of Accad[emia] Naz[ionale dei] Lincei. Classe [di] Sci[enze] Fis[iche] Mat[ematiche] e Nat[urali]. Rendiconti] (Italy) 1957 [ser. 8] v. 23, no. 6, p. 363-370.

DESCRIPTORS: *Polymers, *Butadienes, Crystal structure.

(Chemistry--Organic, TT, v. 8, no. 4)

62-17316

I. Natta, G.
II. Corradini, P.
III. Bassi, I. W
IV. ATS-03P601
V. Associated Technical Services, Inc., East Orange, N. J.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Process for the Manufacture and Purification of Synthetic Polyalcohols, by G. Natta, E. Beati, 5p.

ITALIAN, patent 382,799, filed 21 May 40, granted 12 Sep 40,

AFB-63L33I

111,652

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Apr 60
Vol III, No 2

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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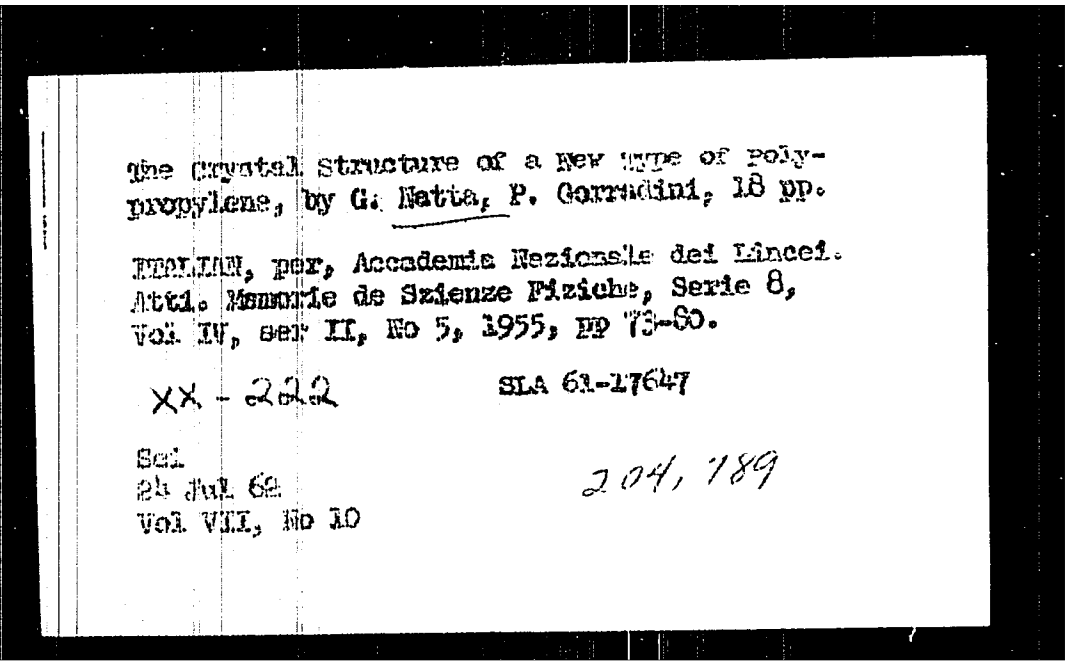

the Crystal Structure of a New Type of Polypropylene, by G. Natta, P. Corradini, 18 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Atti. Memorie de Szienze Fiziche, Serie 8, Vol IV, ser II, No 5, 1955, pp 73-80.

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Vol VII, No 10

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Structure of Alkali Cyanides and their Isomorphism with Halides, by G. Natta, L. Passerini.
ITALIAN, per, Gazz. Chim. Ital, Vol. 61, 1931, pp 191-215
CSIRO/ No. 7779

G NATTA

Sci -
Aug 67

337-136

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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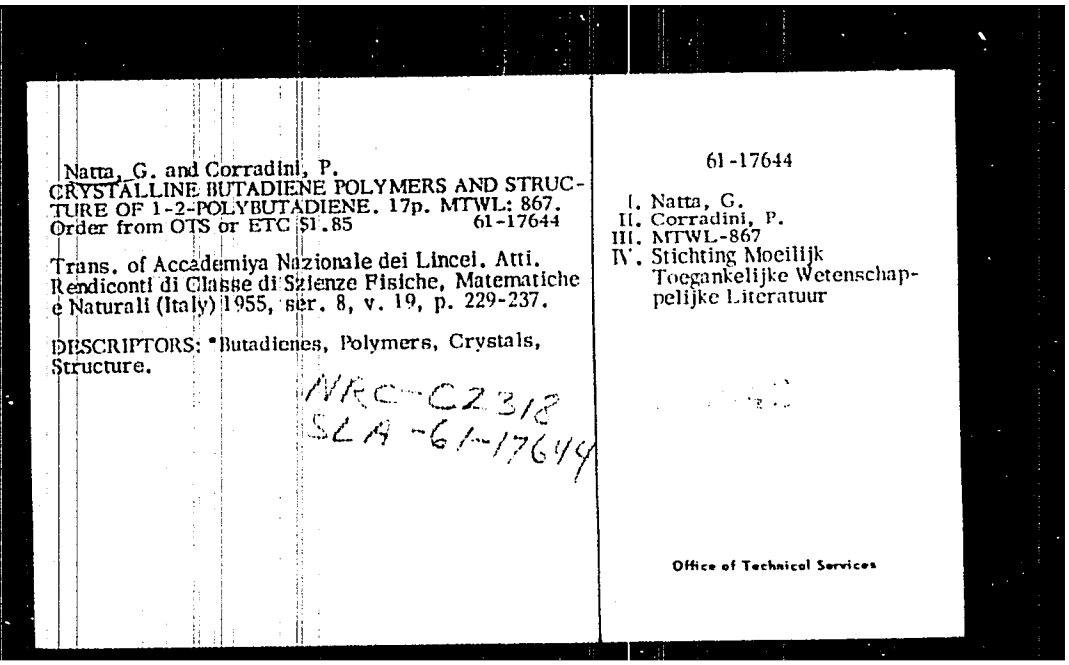

Natta, G. and Corradini, P.
CRYSTALLINE BUTADIENE POLYMERS AND STRUCTURE OF 1-2-POLYBUTADIENE. 17p. MTWL: 867. Order from OTS or ETC $1.85 61-17644

Trans. of Accademiya Nazionale dei Lincei. Atti. Rendiconti di Classe di Szienze Fisiche, Matematiche e Naturali (Italy) 1955, ser. 8, v. 19, p. 229-237.

DESCRIPTORS: *Butadienes, Polymers, Crystals, Structure.

NRC-C2318
SLA-61-17644

61-17644

I. Natta, G.
II. Corradini, P.
III. MTWL-867
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G. and others.
PRODUCTION OF CRYSTALLINE POLYOLEFINS IN ABSENCE OF SOLVENTS. Jan 64.
Order from RIS $26.00 RIS-96779
Polyolefins Set $750.00

Trans. of Belgian patent 551 276, by Montecatini, Milan, Sep 56.

DESCRIPTORS: *Polyethylene plastics, Alkenes, Polymerization, Metalorganic compounds, *Ziegler catalysts.

High molecular weight, crystalline polymers of olefins of the general formula $CH_2=CHR$ (R being hydrogen, a saturated alkyl or aryl radical) are obtained by bringing the olefin in the gas phase in contact with a solid catalyst obtained by reacting a solid compound of a transition metal of groups IV-VI of the periodic system in which
(Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12519

I. Natta, G.
II. Patent (Belgium) 551 276
III. RIS-96779
IV. Research Service Information, New York

280831

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G. and others.
HIGH-MOLECULAR WEIGHT COPOLYMERS OF α-OLEFINS WITH DIOLEFINS AND PROCESS FOR THEIR PRODUCTION. Jan 64.
Order from RIS $34.00 RIS-96635
Polyolefins Set $750.00

Trans. of Belgian patent 546 150, by Montecatini, Milan, Mar 56. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Alkenes, *Dienes, Copolymerization, Metalorganic compounds, *Ziegler catalysts, *Aluminum compounds, Alkyl radicals,

Amorphous, solid, substantially linear copolymers of high molecular weight are obtained from diolefins possessing at least one double vinyl bond and one or several α-olefins of the general form $CH_2=CHR$ (R
(Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12518

I. Natta, G.
II. Patent (Belgium) 546 150
III. RIS-96635
IV. Research Information Service, New York

1280825

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, Giulio and others.
HIGH-MOLECULAR WEIGHT ACETYLENE HYDROCARBONS AND PROCESS FOR THEIR PRODUCTION.
Jan 64.
Order from RIS $34.00 RIS-96633
Hydrocarbons Set $75.00

Trans. of Belgian patent 546 151, by Montecatini, Milan, Mar 56. (Abstract available)

DESCRIPTORS: *Acetylenes, Polymerization, Metal-organic compounds, *Ziegler catalysts, *Aluminum compounds, Alkyl radicals, *Titanium compounds, Chlorides,

A process for polymerizat on of acetylene and other acetylenic hydrocarbons into polymers of a molecular weight exceeding 1000 by means of catalysts prepared by reacting a compound of a transition metal of groups IV to VIII such as titanium trichloride with a metal-organic
(Chemistry--Organic, TT, v. 11, no. 11) (over)

TT-64-12533

I. Natta, G.
II. Patent (Belgium) 546 151
III. RIS-96633
IV. Research Information Service, New York

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Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

60-18196

Natta, Giulio, Carradini, Paolo, and Bassi, Ivano Walter.
THE CRYSTAL STRUCTURE OF SOME POLY-ALPHA-OLEFINS WHICH ARE ISOTACTIC. [1960] 11p. 12refs.
Order from SLA $1.60 60-18496

Trans. of Accad[emia] Naz[ionale del] Lincei. Atti. Class[e di] Sci[enze] Fis[iche] Mat[ematiche] e Nat-[urali]. Rend[iconti] (Italy) 1955 [ser. 8] v. 19, p. 404-411.
Another trans. is available from OTS or ETC $1.85 as 61-17348, MTWL-855/1, 14p.

DESCRIPTORS: *Crystal structure, *Polymers, X-ray diffraction analysis, *Ethylenes.

CSIRO

(Physics--Solid State, TT, v. 10, no. 1)

I. Natta, G.
II. Carradini, P.
III. Bassi, I.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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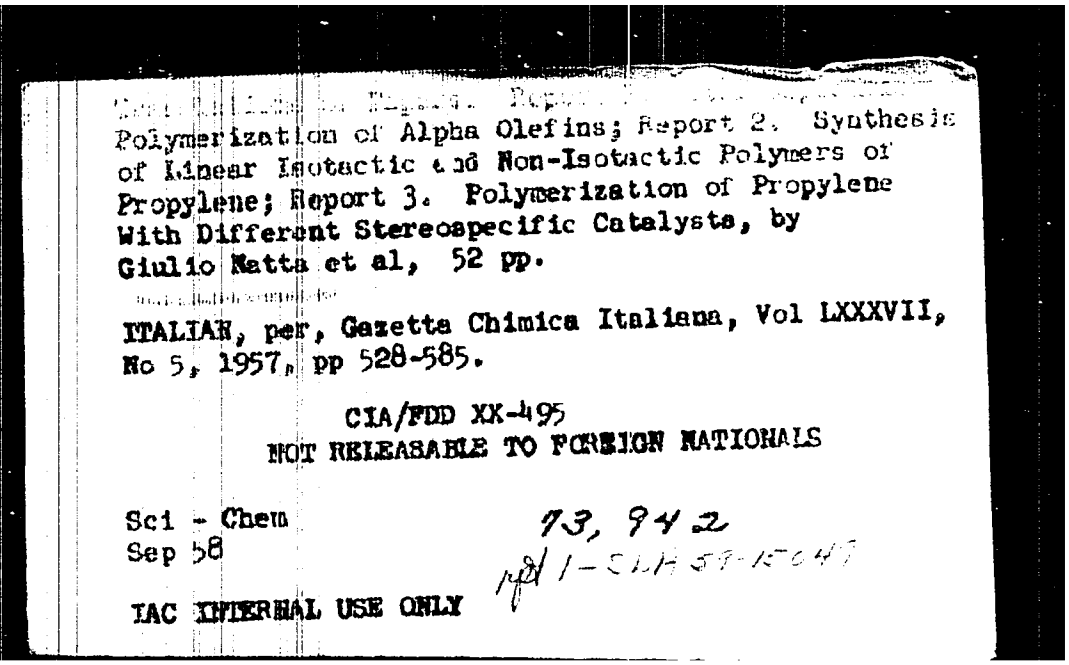

Polymerization of Alpha Olefins; Report 2. Synthesis of Linear Isotactic and Non-Isotactic Polymers of Propylene; Report 3. Polymerization of Propylene With Different Stereospecific Catalysts, by Giulio Natta et al, 52 pp.

ITALIAN, per, Gazette Chimica Italiana, Vol LXXXVII, No 5, 1957, pp 528-585.

CIA/FDD XX-495
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem
Sep 58

93, 942

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Stereospecific Polymerization of Conjugated Dialefins with Catalysts Containing Different Lattice Structural Forms of $TiCl_3$, by Guillo Natta, Lido Porri, Leonardo Fiore, 15 p.

ITALIAN, per, Gazz Chim Ital, 1959, Vol LXXXIX, No 3, pp 761-774.

SLA 59-20016

Sci
Feb 60 Vol 2, No 10

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Isotactic Polymers of Methyl-Substituted Styrenes,
by Dario Giammsi, Giulio Natta, Ferdinando Danusso, 10 p.

ITALIAN, per, Gazzetta Chimica Italiana, 1959,
Vol LXXXIII, No 3, pp 775-783.

SLA 60-10320

Sci
Apr 60
Vol III, No 2

111, 662

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Radiographic Identification of Some Isotactic Polymers, by Giulio Natta, Paolo Corradini, Ivano Walter, 15 p.

ITALIAN, per, Gazzetta Chimica Italiana, 1959, Vol LXXXIX, No 3, pp 784-797.

SLA 60-10701

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May 60

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Vol 3, No 4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

A New Italian Demonstration in the Textile Industry; The Polypropylene Fibre, by Giulio Natta, 18 p.

ITALIAN, per, la Chimica e l'Industria, 1959, Vol XLI, No 7, pp 647-652.

SLA 59-20661

SLA 60-1277

110,971

Sci
Mar 60
Vol 3, No 1

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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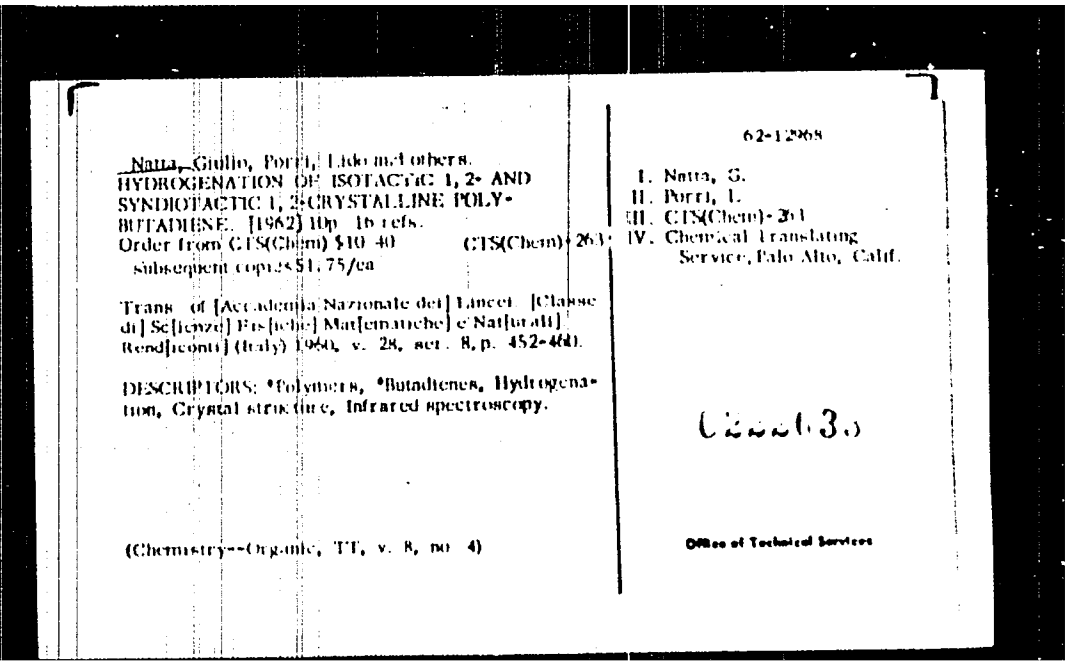

Natta, Giulio, Porri, Lido and others.
HYDROGENATION OF ISOTACTIC 1, 2- AND SYNDIOTACTIC 1, 2-CRYSTALLINE POLY-BUTADIENE. [1962] 10p 16 refs.
Order from CTS(Chem) $10.40 (CTS(Chem)-263)
Subsequent copies $1.75/ea

Trans of [Accademia Nazionale dei] Lincei [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali] Rend[iconti] (Italy) 1960, v. 28, ser. 8, p. 442-448.

DESCRIPTORS: *Polymers, *Butadienes, Hydrogenation, Crystal structure, Infrared spectroscopy.

(Chemistry--Organic, TT, v. 8, no. 4)

62-12968

I. Natta, G.
II. Porri, L.
III. CTS(Chem)-263
IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G[iulio] Farina. M[ario] and others.
ASYMMETRIC SYNTHESIS OF POLYTACTIC POLYMERS. [1961] 3p.
Order from ATS $6.30 ATS-85N491

Trans. of [la] Chim[ica] e [l'] Ind[ustria] (Italy) 1960, v. 42, no. 12, p. 1363-1364.

ATS-(77-G)

(Chemistry--Organic, TT, v. 5, no. 11)

61-22168

1. Polymers--Synthesis
2. Title: Polytactic polymers
I. Natta, G.
II. Farina, M.
III. ATS-85N491
IV. Associated Technical Services, Inc., East Orange, N J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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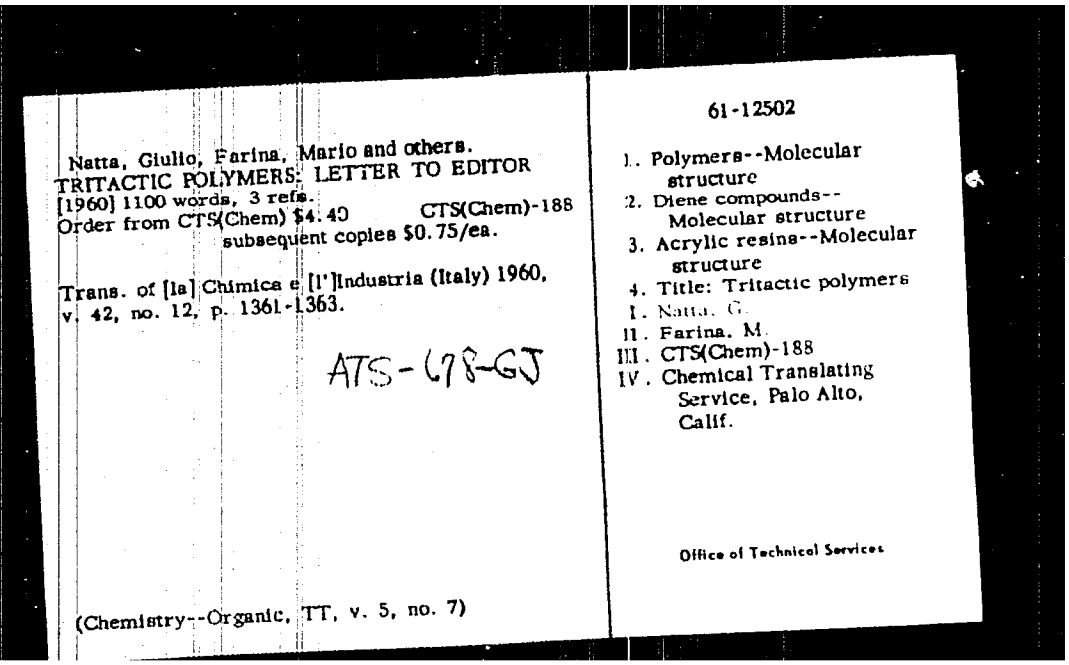

Natta, Giulio, Farina, Mario and others.
TRITACTIC POLYMERS: LETTER TO EDITOR
[1960] 1100 words, 3 refs.
Order from CTS(Chem) $4.40 CTS(Chem)-188
subsequent copies $0.75/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1960,
v. 42, no. 12, p. 1361-1363.

ATS-678-GJ

(Chemistry--Organic, TT, v. 5, no. 7)

61-12502

1. Polymers--Molecular structure
2. Diene compounds--Molecular structure
3. Acrylic resins--Molecular structure
4. Title: Tritactic polymers
I. Natta, G.
II. Farina, M.
III. CTS(Chem)-188
IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, Giulio.
CATALYTIC ASPECTS OF STEREOSPECIFIC POLYMERIZATIONS. [1960] 13,000 words, 79 refs.
Order from CTS(Chem) $48.00 CTS(Chem)-179
subsequent copies $8.00/ea.

Trans. of [la] Chimica e l'Industria (Italy) 1960, v. 42, no. 11, p. 1207-1225.

(Chemistry--Organic, TT, v. 5, no. 5)

61-12498

1. Ethylenes--Polymerization
2. Metalorganic compounds--Catalytic properties
3. Polymerization--Analysis
4. Title: Stereospecific polymerization

I. Natta, G.
II. CTS(Chem)-179
III. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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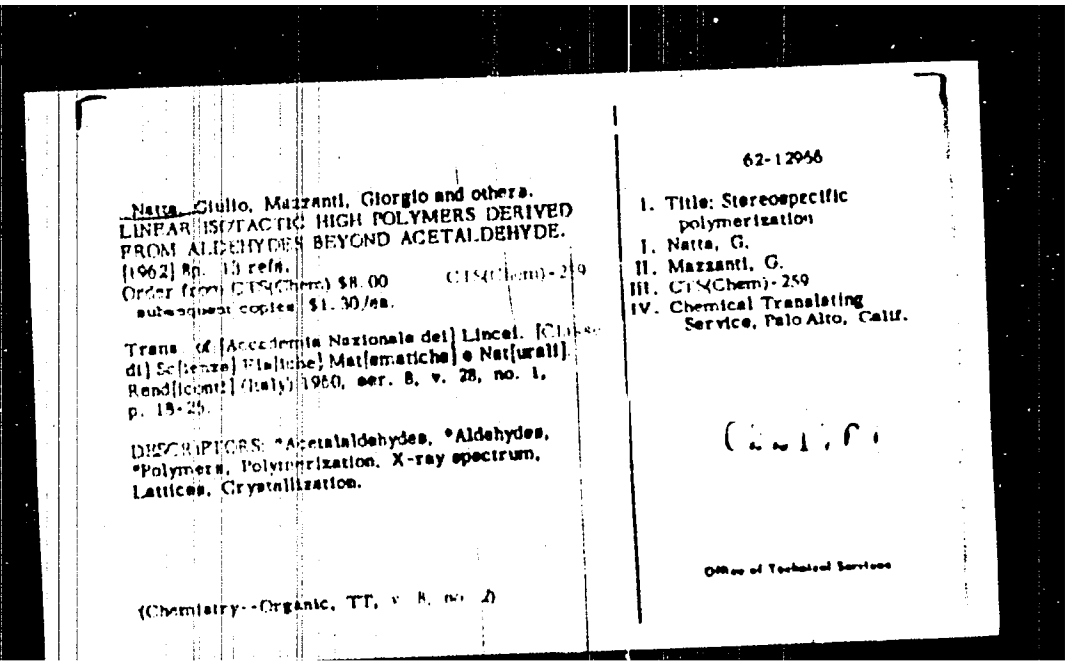

Natta, Giulio, Mazzanti, Giorgio and others.
LINEAR ISOTACTIC HIGH POLYMERS DERIVED FROM ALDEHYDES BEYOND ACETALDEHYDE.
[1962] 8p. 15 refs.
Order from: CTS(Chem.) $8.00 CTS(Chem)-259
subsequent copies $1.30/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Scienze [Fisiche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960, ser. 8, v. 28, no. 1, p. 19-25.

DESCRIPTORS: *Acetalaldehydes, *Aldehydes, *Polymers, Polymerization, X-ray spectrum, Lattices, Crystallization.

(Chemistry--Organic, TT, v. 8, no. 2)

62-12958

1. Title: Stereospecific polymerization
I. Natta, G.
II. Mazzanti, G.
III. CTS(Chem)-259
IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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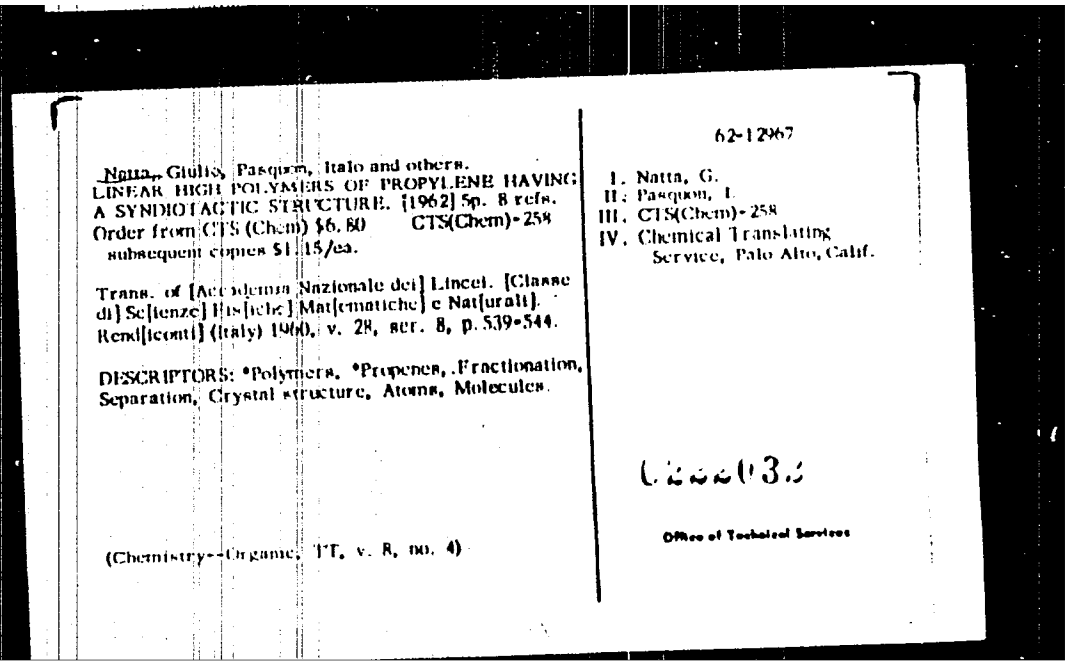

Natta, Giulio, Pasquon, Italo and others.
LINEAR HIGH POLYMERS OF PROPYLENE HAVING A SYNDIOTACTIC STRUCTURE. [1962] 5p. 8 refs.
Order from CTS (Chem) $6.80 CTS(Chem)-258
subsequent copies $1.15/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960, v. 28, ser. 8, p. 539-544.

DESCRIPTORS: *Polymers, *Propenes, Fractionation, Separation, Crystal structure, Atoms, Molecules.

(Chemistry--Organic, TT, v. 8, no. 4)

62-12967

I. Natta, G.
II. Pasquon, I.
III. CTS(Chem)-258
IV. Chemical Translating Service, Palo Alto, Calif.

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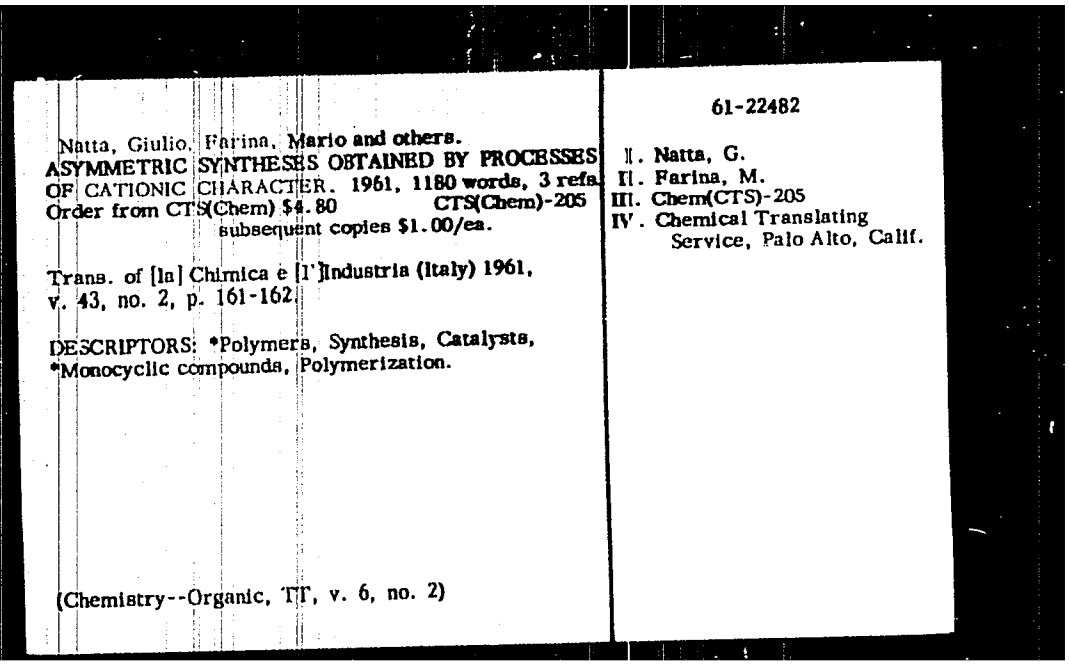

Natta, Giulio, Farina, Mario and others.
ASYMMETRIC SYNTHESES OBTAINED BY PROCESSES OF CATIONIC CHARACTER. 1961, 1180 words, 3 refs.
Order from CTS(Chem) $4.80 CTS(Chem)-205
subsequent copies $1.00/ea.

Trans. of [la] Chimica e l'Industria (Italy) 1961, v. 43, no. 2, p. 161-162.

DESCRIPTORS: *Polymers, Synthesis, Catalysts, *Monocyclic compounds, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22482

I. Natta, G.
II. Farina, M.
III. Chem(CTS)-205
IV. Chemical Translating Service, Palo Alto, Calif.

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Use of Dicylopentadienylititanium Derivatives for the Study of Catalysts of Low-Pressure Ethylene Polymerization,
by G. Natta, 5 pp.
ITALIAN, per, Chimica e l'Industria, Vol XXXIX, No 1, 1957, pp 19-20.
CFSTI TT-64-18165

Sci - Chem
Jul 66

G. Natta
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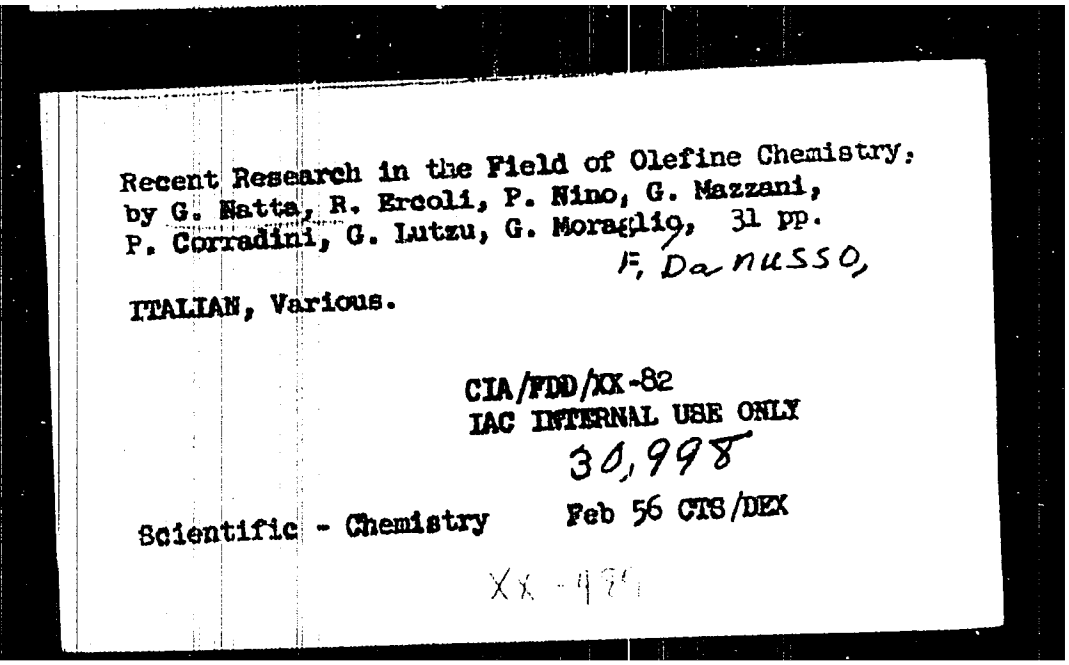

Recent Research in the Field of Olefine Chemistry.
by G. Natta, R. Ercoli, P. Nino, G. Mazzani,
P. Corradini, G. Lutzu, G. Moraglio, 31 pp.
F. Danusso,

ITALIAN, Various.

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Scientific - Chemistry Feb 56 CTS/DEX

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Copolymerization of Ethylene With Aliphatic Olefins. Part 4. Ethylene-Propylene Copolymerization by Means of Vanadium Trichloride Catalysts, by G. Natta, G. Mazzanti, et al, 12 pp

ITALIAN, per, Chimica e l'Industria, Vol XL, No 9, 1958, pp 717-724.

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SCA 51-10
" 61, 85102

Sci - Chem
OTS I, 4
Apr 59

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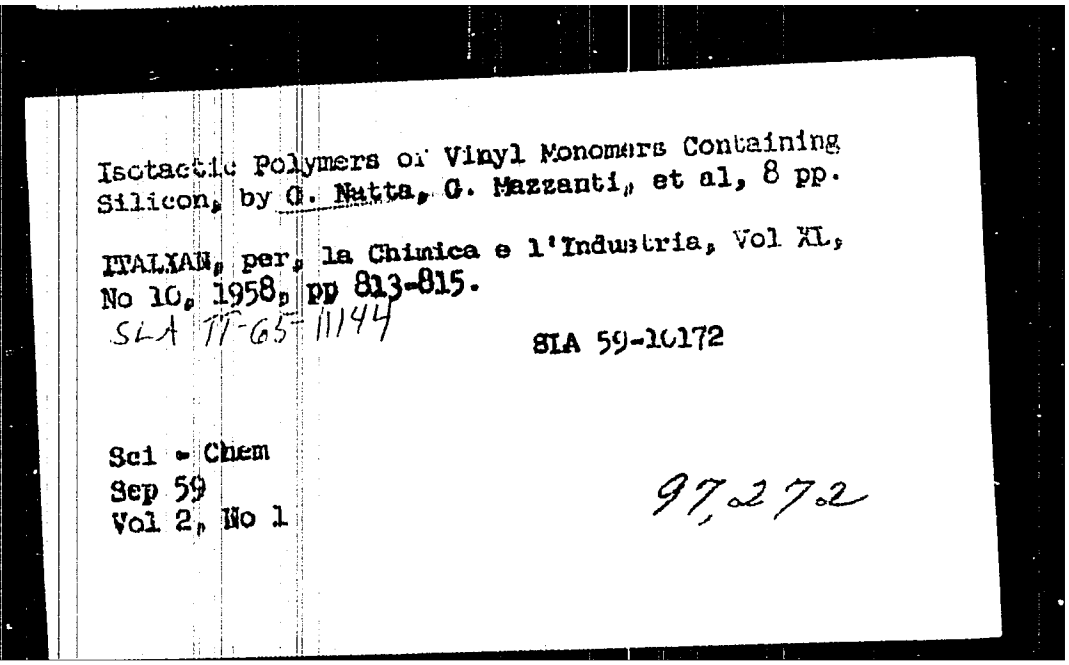

Isotactic Polymers of Vinyl Monomers Containing Silicon, by G. Natta, G. Mazzanti, et al, 8 pp.

ITALIAN, per. la Chimica e l'Industria, Vol XL, No 10, 1958, pp 813-815.

SLA TT-65-11144

SIA 59-10172

Sci - Chem
Sep 59
Vol 2, No 1

97,272

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Copolymerization of Ethylene with Aliphatic
a. -Olefins. V. Ethylene-Propylene Copolymerization
by Means of Titanium Halide Catalysts, by G. Natta,
A. Valvassori, et al., 17 pp.

ITALIAN, per, Chimica e l'Industria, Vol XL, No 11,
1958, pp 896-905.

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Sci - Chem
OTS I, 9
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Kinetics of the Chain Growth and Break off Processes with the Stereospecific Polymerization of Propylene, by G. Natta, 31 pp. SNIES, per, Makromolekulare Chemie, Vol XXIV, No 3, 1957, pp 258-290.
CFSTI TT-64-18151

G. Natta

Sci - Chem
Jul 66

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Stereospecific Polymerization of Conjugated Diolefins. Note III. Polymerization of Butadiene With the System $Al(C_2H_5)_3/TiCl_4$, by G. Natta, L. Porri, et al, 14 pp.

Italian, per, La Chimica e l'Industria, Vol XLI, No 5, 1959, pp 398-404.

SLA 59-17384

SLA-61-[illegible]

104,833

Sci
Jan 60
Vol 2, NO 7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

The Influence of Hydrogen on the Anionic Coordination Polymerization of Propylene and of Ethylene, by G. Natta, G. Mazzanti, 20 p.

ITALIAN, per, Chimica el'Industria, 1959, Vol XLI, No 6, pp 519-526.

SLA 60-10598
OTS 61-10464
116,778

Sci
May 60
Vol 9, No 4

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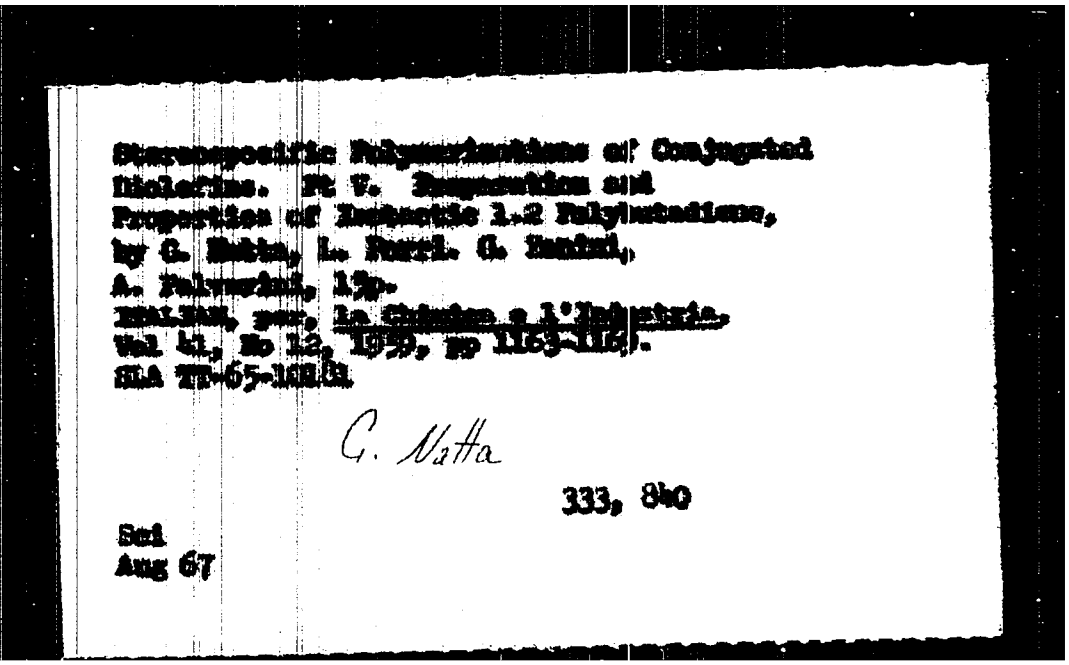

Stereospecific Polymerizations of Conjugated Dialefins. Pt V. Preparation and Properties of Isotactic 1,2 Polybutadiene, by G. Natta, L. Porri, G. Zanini, A. Palvarani, 13p.
Materie, prie. le Chimie e l'Industria, Vol 41, No 12, 1959, pp 1163-1167.
ASA TT-65-10113.

G. Natta

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Aug 67

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

A Few Reactions of Arene Chromotricarbonyls,
by G. Natta, R. Ercoli, et al., 24 pp.

ITALIAN, per, La Chimica e l'Industria, 1958,
Vol XL, No 12, pp 1003-1007.

SLA 59-10425

Sci - Chem
GRB I, 12
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Bassi, I., and Corradini, P.
ON THE CHAIN STRUCTURE OF CRYSTALLINE POLYVINYL ISOBUTYL ETHER. [1963] 7p. (figs. omitted) 16 refs.
Order from SLA $1.10 63-14194

Trans. of Makromolekulare Chemie (Switzerland) 1955, v. 17, Dec., p. 455--462.

DESCRIPTORS: *Molecular structure, Crystal structure, *Acetal plastics, Ethers, Plastics.

The chain structure of crystalline polyvinyl isobutyl ether, prepared by a cationic catalysis mechanism, is discussed. The x-ray photo data are interpreted with the aid of the molecular transformation method, and it is concluded that the polymer is isotactic in the crystal phase (that is, the asymmetrical carbon atoms all have the same steric (space) configuration), and the polymer (Chemistry--Physical, TT, v. 10, no. 9) (over)

63-14194

1. Title: Polyvinylisobutyl ether
I. Natta, G.
II. Bassi, I.
III. Corradini, P.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Natta, G[ulio] Bassi, I[vano Walter] and Corradini, P[aolo].
THE CHAIN STRUCTURE OF CRYSTALLINE POLY-VINYL ISOBUTYL ETHER. [1963] 11p (figs omitted).
Order from K-H $11.00 K-H 5388 a

Trans. of Makromolekulare Chemie (Switzerland) 1956, v. 18/19, p. 455-462.

DESCRIPTORS: Ethers, *Butyl radicals, *Vinyl radicals, Polymers, Crystallization, Molecular structure

(Chemistry--Organic, TT, v. 11, no. 2)

TT-63-22804

I. Natta, G. I.
II. Bassi, I. W.
III. Corradini, P.
IV. K-H-5388-a
V. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Titanium- and Aluminum-Containing Crystallizable Complexes Possessing Catalytic Activity in the Polymerization of Ethlene, by G. Natta et al, 8 pp

ITALIAN, per, J. Inorg & Nuclear Chem, Vol VIII, 1958, pp 612-619.

ATS 153-L
ATS 51129I

Sci
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Polymorphism of Crystalline Titanium Trichloride, by G. Natta et al.

ITALIAN, pcr, Atti Accad Nazl Lincei Rend Classe Sci Fis Mat e Nat, Vol XXIV, No 2, 1958, pp 121-129.

ATS 160-IJ

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Stereospecific Polymerization of Styrene. I. Data and Problems on Crystalline Polystyrene, by G. Natta, F. Danusso.

ITALIAN, per, Chim e ind, Vol XL, No 6, 1958, pp 445-450.

ATS 161-LJ
SIA 59-17209
CSIRO

Sci - Chem
Nov 59

102,401

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Comparison, Between the Synthesis of Esters
From Acetylene and Ethylene by Reaction
with Carbon Monoxide and Alcohols,
by G. Natta, P. Pino.
ITALIAN, per. Chimica e l'Industria, Vol XXXIV,
1952, pp 449-453. No 8.
SLA TT 64-20344

G Natta

iay 67 3245,068

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Stereospecific Polymerization of Conjugated Diolefins. II. Polymerization of Butadiene With Catalysts Prepared From Aluminum Alkyls and Soluble Vanadium Chlorides, by G. Natta, L. Porri, A. Mazzei, 20 pp.

ITALIAN, per, Chimica e l'Industria, Vol XLI, No 2, 1959, pp 116-122.

SLA 59-15340

Sci - Chemistry
Nov 59

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(FDD 28487)

Isotactic Polymers, by G. Natta, 25 pp.

FRENCH, monograph, Polymeres Isotactiques, Zurich, pp 1-27.

CIA/FDD U-8867

EEur - Germany

Sci - Chemistry, organic chemistry

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The Elastomeric Properties of Ethylene-Propylene Copolymers, by G. Natta, G. Crespi, 12 pp.

ITALIAN, Per, la Chim e l'Industria, 1959, Vol XLI, No 2, pp 123-128.

SLA 59-15628
OTS 61-10459

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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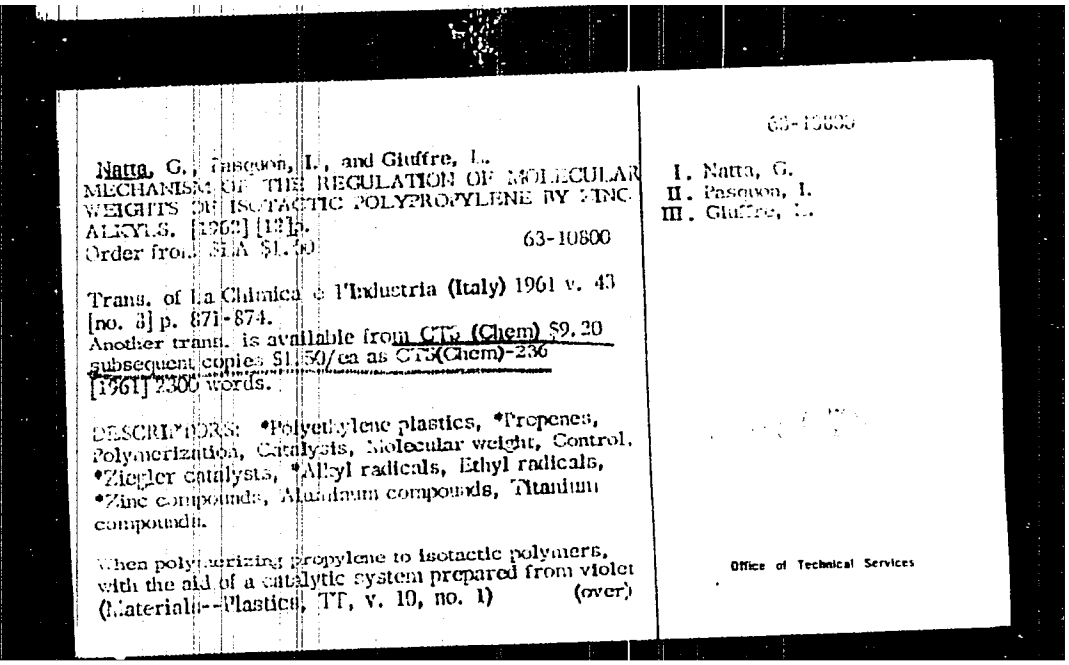

Natta, G., Pasquon, I., and Giuffre, L.
MECHANISM OF THE REGULATION OF MOLECULAR WEIGHTS OF ISOTACTIC POLYPROPYLENE BY ZINC ALKYLS. [1962] [13]p.
Order from: SLA $1.50

63-10800

Trans. of La Chimica e l'Industria (Italy) 1961 v. 43 [no. 3] p. 871-874.
Another transl. is available from CTS (Chem) $9.20 subsequent copies $1.50/ea as CTS(Chem)-236 [1961] 2300 words.

63-10800

I. Natta, G.
II. Pasquon, I.
III. Giuffre, L.

DESCRIPTORS: *Polyethylene plastics, *Propenes, Polymerization, Catalysts, Molecular weight, Control, *Ziegler catalysts, *Alkyl radicals, Ethyl radicals, *Zinc compounds, Aluminum compounds, Titanium compounds.

When polymerizing propylene to isotactic polymers, with the aid of a catalytic system prepared from violet (Materials--Plastics, TT, v. 10, no. 1) (over)

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Isophase Transitions of Polymers Derived From Normal Aliphatic α-Olefins, by G. Natta, et al.

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SLA 59-15001

Sci
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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[Kinetics of Propylene Polymerization with Highly Stereospecific Heterogeneous Catalysts. Part IV., The Influence of Temperature and Pressure on the Kinetics of Polymeric Chain Growth and Termination Processes, by G. Natta, I. Pasquon, 21 p.

ITALIAN, per, La Chim e Ind, 1958, Vol XL, No 2, pp 103-111.

SLA 59-20710 110,867

Sci Mar 60 Vol 3, No 1

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Atactic and Stereoblock Polymers from Alpha-Olefins, by G. Natta, G. Mazzanti, P. Longi, 17 pp.

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SLA 59-15515

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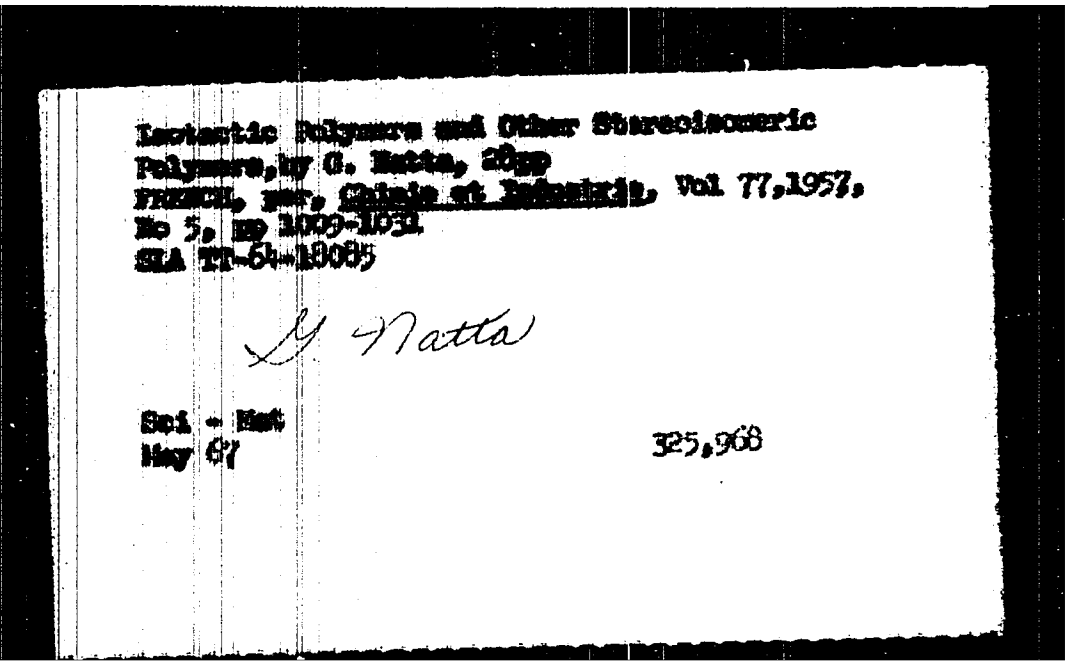

Isotactic Polymers and Other Stereoisomeric
Polymers, by G. Natta, 28pp
Fromel, per. Chimie et Industrie, Vol 77, 1957,
No 5, pp 1099-1051
SLA TT-64-10085

G Natta

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Natta, G., Pasquon, I. and others.
KINETICS OF PROPYLENE POLYMERIZATION WITH HIGHLY STEREOSPECIFIC HETEROGENEOUS CATALYSTS. V. STUDY OF CHAIN TRANSFER PROCESSES BY THE USE OF C^{14} LABELED ALKYL ALUMINUMS. [1960] [28]p. 11 refs.
Order from SLA mi$2.70, ph$4.80 61-10471

Trans. of la Chimica e l'Industria (Italy) 1958, v. 40 [no. 4] p. 267-273.

The use of triethyl aluminum labeled with C^{14} made it possible to demonstrate that in the polymerization of propylene in the presence of the $TiCl_3$ (violet modification)-$Al(C_2H_5)_3$-n-heptane catalytic system, a part of the polymeric chain growth scission processes, and in particular those depending upon the concentrations of each component of the catalyst, take place by an introduction of the C_2H_5 group formed from the $Al(C_2H_5)_3$ into the polymer. The orders of the rate of the polymeric chain rupture processes with respect
(Chemistry--Organic, TT, v. 5, no. 6) (over)

61-10471

1. Propenes--Polymerization
2. Polymerization--Analysis
I. Natta, G.
II. Pasquon, I.
III. Title: Study...

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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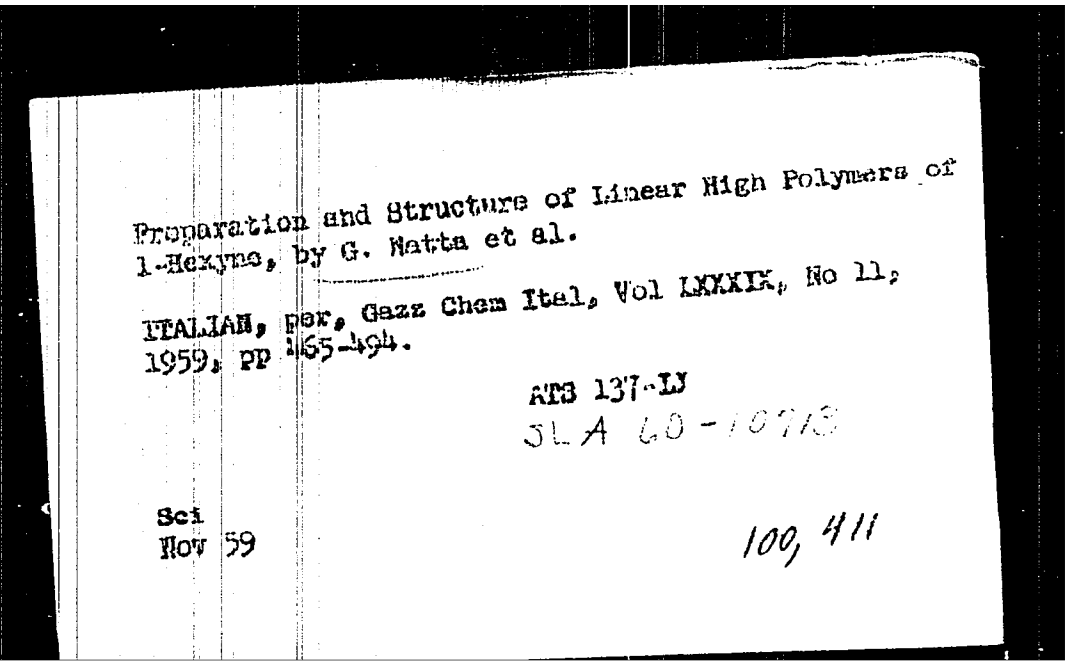

Preparation and Structure of Linear High Polymers of 1-Hexyne, by G. Natta et al.

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AM3 137-LY
SLA 60-10713

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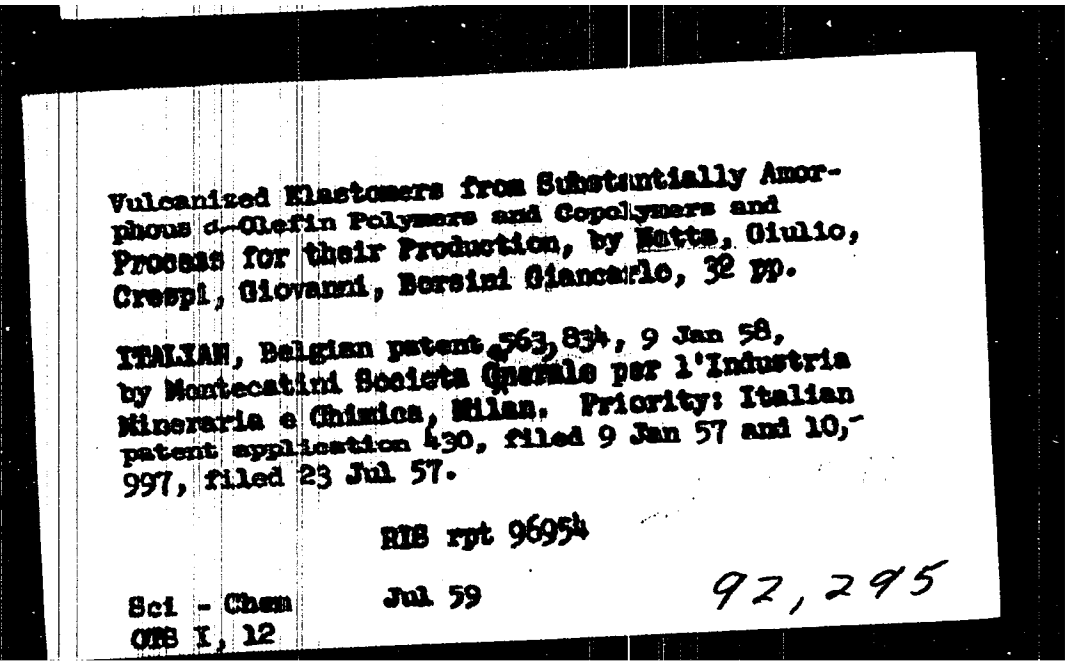

Vulcanized Elastomers from Substantially Amorphous α-Olefin Polymers and Copolymers and Process for their Production, by Natta, Giulio, Crespi, Giovanni, Bernini Giancarlo, 32 pp.

ITALIAN, Belgian patent 563,834, 9 Jan 58, by Montecatini Societa Generale per l'Industria Mineraria e Chimica, Milan. Priority: Italian patent application 430, filed 9 Jan 57 and 10,997, filed 23 Jul 57.

RIB rpt 96954

Sci - Chem
ORB I, 12

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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[Kinetics of Propylene Polymerization with Highly Stereospecific Heterogeneous Catalysts]. Part III, Chain Deactivation Processes Dependent on the Catalyst Concentration, by G. Natta, I. Pasquon, E. Giachetti, 18 p.

ITALIAN, per, La Chim e Ind, 1958, Vol IX, No 2, pp 97-103.

OTS 61-18719
SLA 59-20711

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The Structure of the Alkali Cyanides and Their Isomorphism With the Halides, by G. Natta, L. Passerini, 28 pp.

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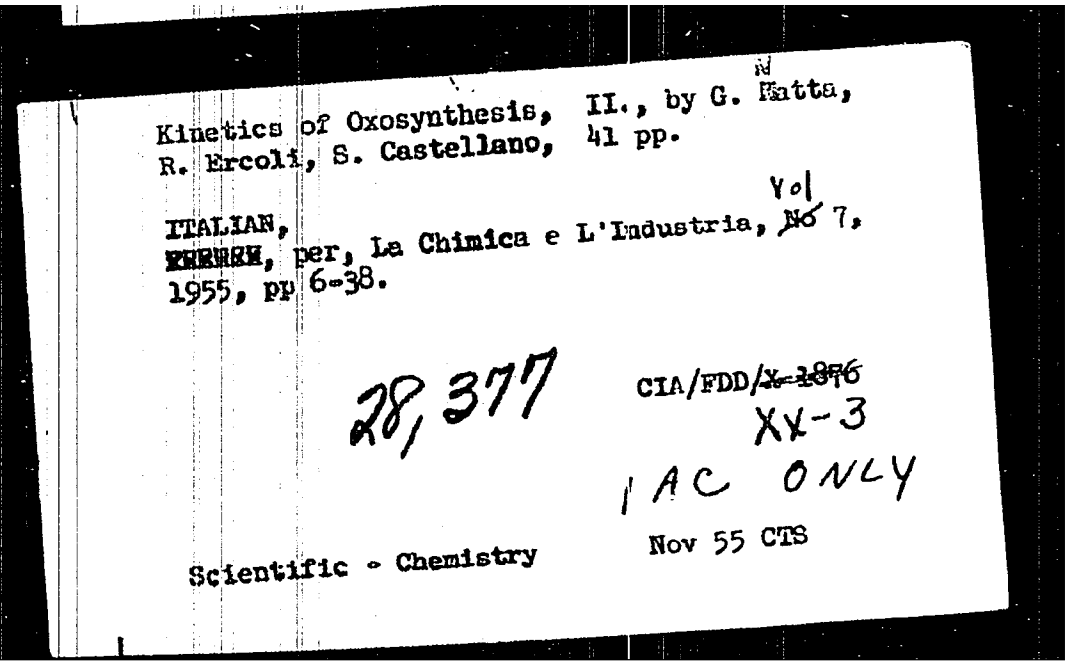

Kinetics of Oxosynthesis, II., by G. Natta, R. Ercoli, S. Castellano, 41 pp.

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~~RUSSIAN~~, per, La Chimica e L'Industria, ~~No~~ Vol 7, 1955, pp 6-38.

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Synthesis and Structure of Some Crystalline Polyhydrocarbons Containing Asymmetric Carbon Atoms in the Main Chain, by G. Natta, P. Pino, G. Mazzanti, 9 pp.

ITALIAN, per, Chimica e l'Industria, Vol XXXVII, No 12, 1955, pp 927-932.

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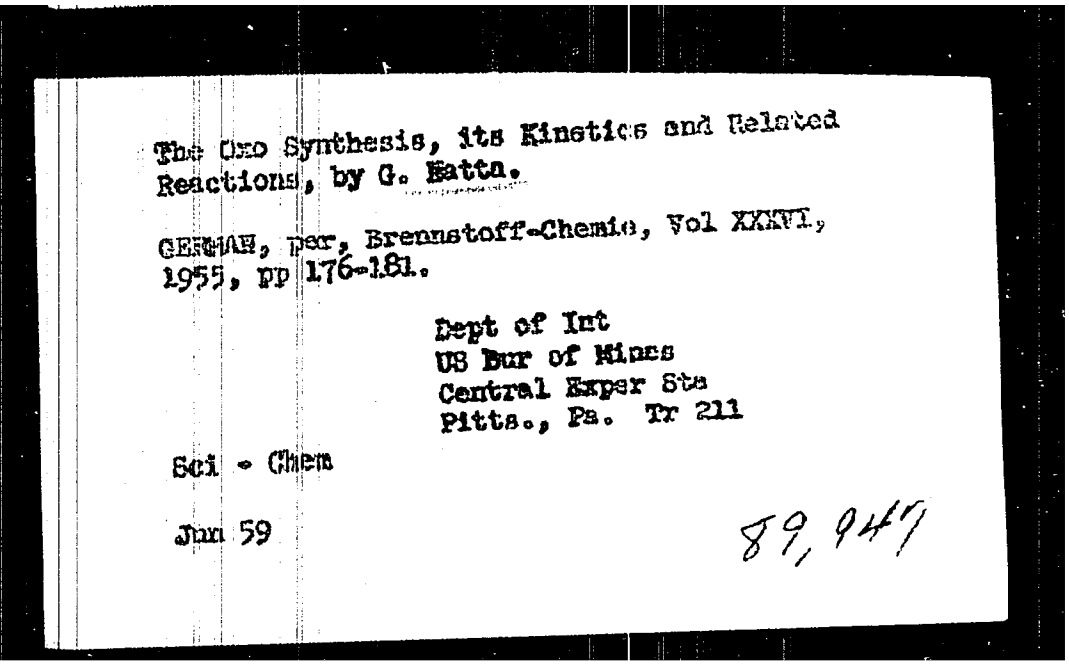

The Oxo Synthesis, its Kinetics and Related Reactions, by G. Natta.

GERMAN, Per, Brennstoff-Chemie, Vol XXXVI, 1955, pp 176-181.

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Natta, G., Pino, P. and others
SYNTHESIS AND CHARACTERISTICS OF NEW POLYMERS OF THE ALPHA OLEFINS WITH EXCEPTIONALLY REGULAR STRUCTURE. [1961] [7]p.
Order from SLA $1.10 62-14034

Trans. of mono. (paper) from World Petroleum Congress (no. 4) [Rome, 1955]. Proceedings, sect. IV/C.

DESCRIPTORS: *Polymers, *Ethylenes, *Petroleum, Synthesis, Crystals, Mechanical properties.

Topics discussed include (1) generalities of the polymers of alpha olefins, (2) synthesis and characteristics of crystalline polymers of alpha olefins, and (3) mechanical properties of isotaxic polymers.

(Chemistry--Organic, TT, v. 8, no. 7)

62-14034

i. Natta, G.
II. Pino, P.

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A New Class of a-olefinic Polymers Having an Exceptional Regularity of Structure, by G. Natta, 11 pp.

ITALIAN, per, J. Polymer Sci, V No 16, 1955, pp 143-154.

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IAC Internal Use Only

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Scientific - Chemistry Nov 55 CTS

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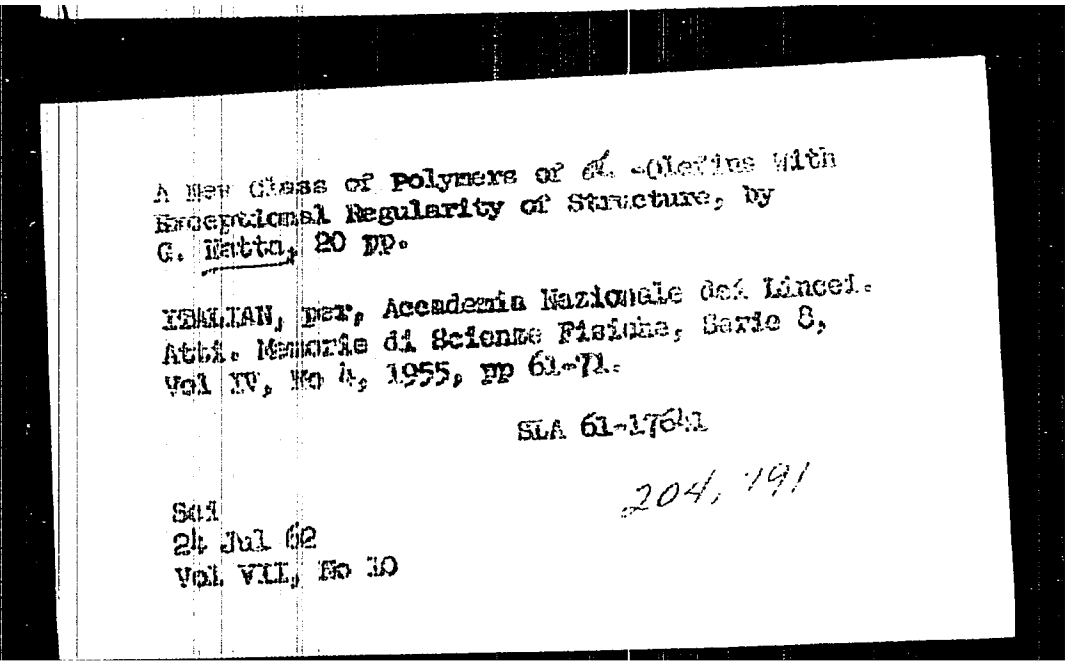

A New Class of Polymers of α-Olefins With Exceptional Regularity of Structure, by G. Natta, 20 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Atti. Memorie di Scienze Fisiche, Serie 8, Vol IV, No 4, 1955, pp 61-71.

SLA 61-17641

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Vol VII, No 10

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X-Ray Studies on Crystallinity and Structure of High Molecular Weight Hydrocarbons, by G. Natta, P. Corradini, 17 pp.

~~XXXX~~ ITALIAN, per, Ricerce Scientifica, Vol XXV, 1955, pp 695-706.

SLA 61-17634

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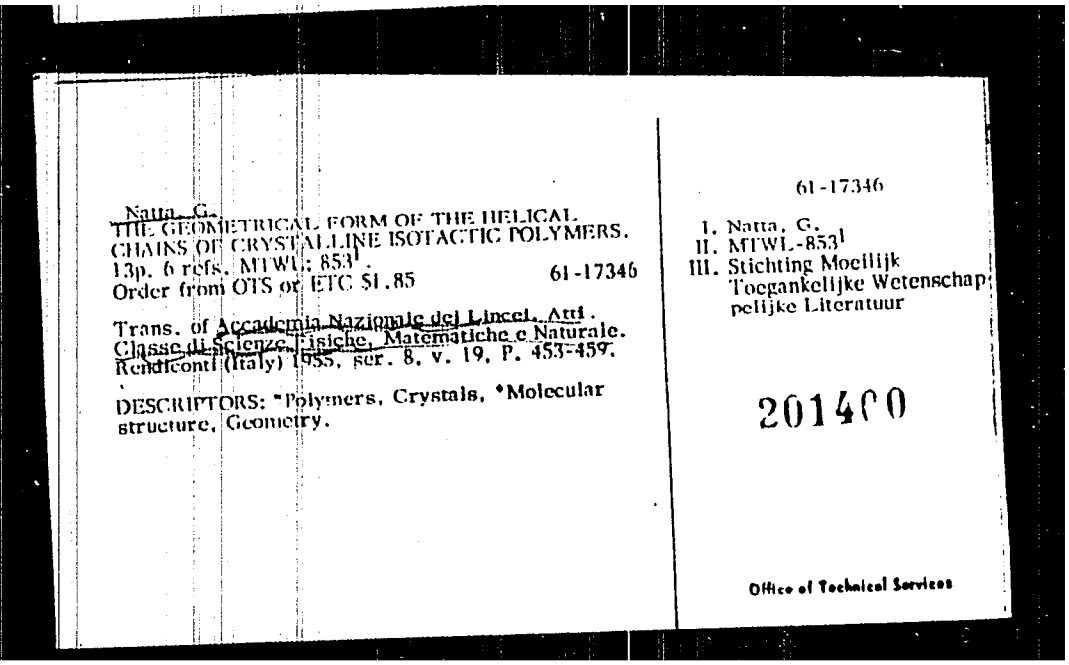

Natta, G.
THE GEOMETRICAL FORM OF THE HELICAL CHAINS OF CRYSTALLINE ISOTACTIC POLYMERS.
13p. 6 refs. MTWL: 853
Order from OTS or ETC $1.85 61-17346

Trans. of Accademia Nazionale dei Lincei, Atti. Classe di Scienze Fisiche, Matematiche e Naturale. Rendiconti (Italy) 1955, ser. 8, v. 19, P. 453-459.

DESCRIPTORS: *Polymers, Crystals, *Molecular structure, Geometry.

61-17346

I. Natta, G.
II. MTWL-853
III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Crystalline Structure of Isotactic Polystyrene,
by G. Natta, P. Corradini. 1 8 (C

ITALIAN, per, Atti Accad Nazl Lincei Vol XVIII,
1955, pp 19-27.

36,079
CIA/FDD XX-160

Scientific - Chemistry

Jun 56 CIS/dex

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Kinetic Interpretations of Heterogeneous Catalysis and Applications to reactions Between Gases at High Pressure. II. Synthesis of Methanol over Copper-Containing Catalysts, by G. Natta.

FRENCH, per, Chim e Ind, Vol XXXVII, Dec 1955, pp 1015-1025.

AFLIB-GD39

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Natta, G., Pino, P., and Mazzanti, G.
HIGH MOLECULAR WEIGHT POLYMERS OF ACETYLENIC HYDROCARBONS AND METHODS FOR THEIR PREPARATION. [1961] 6p.
Order from ATS $12.60 ATS-04N511

Trans. of Italian patent 530,753, filed 18 Mar 55, granted 15 Jul 55.

DESCRIPTORS: *Polymers, Molecular weight, Synthesis, *Acetylenes, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22336

I. Natta, G.
II. Pino, P.
III. Massanti, G.
IV. Patent (Italy) 530 753
V. ATS-04N511
VI. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Mazzanti, G., and Boschi, G.
COPOLYMERS OF HIGH MOLECULAR WEIGHT FROM OLEFINS AND PROCEDURES FOR THEIR PREPARATION. [1961] 46p. (7 figs. 3 tables omitted) 7 refs.
Order from OTS or SLA $4.60 62-10759

Trans. of Italian patent 554,803, by Montecatini Co. of Milan for the Mining Industry and Chemistry, filed 23 Dec 55, granted 16 Jan 57.

DESCRIPTORS: *Ethylenes, *Polymers, *Molecular weight, Alkyl radicals, Catalysts, Transition elements, Polymerization.

A process is proposed for the preparation of linear, high molecular weight copolymers, substantially free of homopolymers, from alpha-olefins $CH_2 = CHR$ where R is an alkyl, among themselves and/or with ethylene. The process is characterized by the use of (over)
(Engineering--Chemical, TT, v. 7, no. 11)

62-10759

I. Natta, G.
II. Mazzanti, G.
III. Boschi, G.
IV. Patent (Italy) 554 803

209685

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

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Natta, G.
STEREOSPECIFIC CATALYSIS AND ISOTACTIC POLYMERS [Stereospezifische Katalysen und Isotaktische Polymers]. [1961] 30p. 34 refs.
Order from ES $15.00

Trans. of Angew[andte] Chem[ie] (West Germany) 1956, v. 68, p. 393-[403] (Also pub. in la Chimica e l'Industria (Italy) 1956, v. 38, p. 751ff).
Another translation is available from SLA $3.60 as 61-16700 [1961] [39]p.

DESCRIPTORS: *Catalysis, *Polymers, Synthesis, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25135

1. Title: Isotactic polymers
2. Title: Stereospecific polymerization
I. Natta, G.
II. Stux, Erica, Akron, Ohio

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700020-8

Natta, G., Corradini, P., and Porri, L.
THE STRUCTURE OF NEW POLYMERS OF CONJUGATE DIOLEFINS CONTAINING 1-4 TRANS LINKAGES.
12p. MTWL: 872.
Order from OTS or ETC $1.85 61-17636

Trans. of Accademia Nazionale dei Lincei, Atti. Classe di Scienze Fisiche e Matematiche. Rendiconti. (Italy) 1956, Ser. 8, v. 20, p. 728-734.

DESCRIPTORS: *Polymers, *Butadienes, *Isoprene, X-ray diffraction analysis, Structures.

61-17636

I. Natta, G.
II. Corradini, P.
III. Porri, L.
IV. MTWL-872
V. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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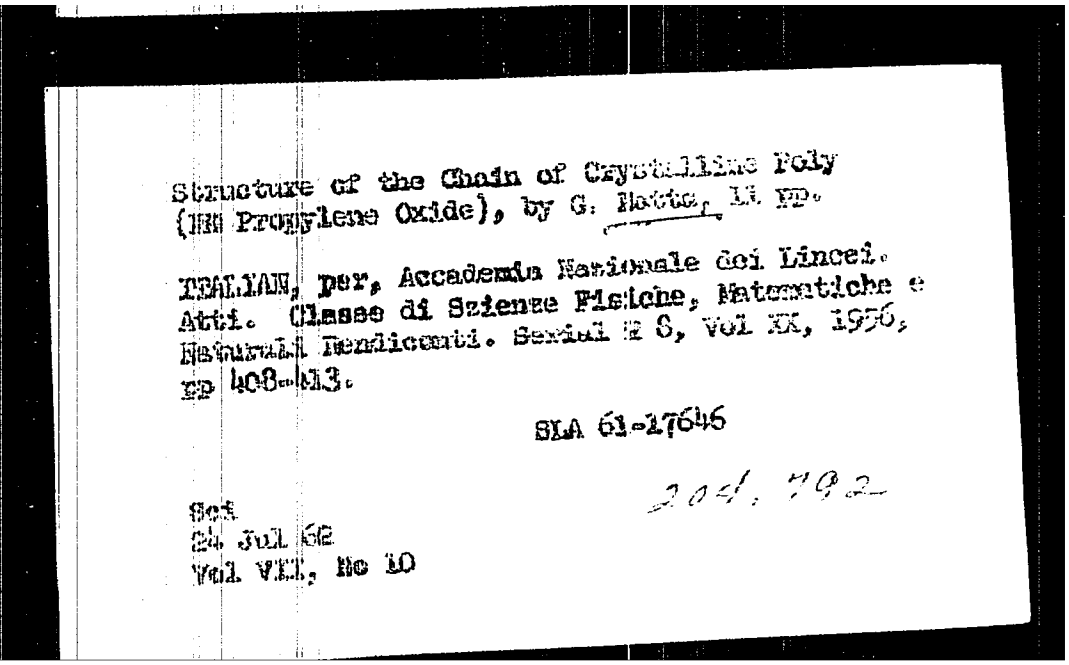

Structure of the Chain of Crystalline Poly (3H Propylene Oxide), by G. Natta, M. Pe.

ITALIAN, per, Accademia Nazionale dei Lincei. Atti. Classe di Scienze Fisiche, Matematiche e Naturali Rendiconti. Serial 8 S, Vol XX, 1956, pp 408-413.

SLA 61-17646

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Crystalline Polymer of Butadiene With 1-2 Isotactic Linkage, by G. Natta, L. Porrt, P. Corradini, et al.

ITALIAN, per, Accademia Nazionale dei Lincei, Rome. Classe di Scienze Fisiche Matematiche e Naturali, Rendiconti, Vol XX, 1956, pp 560-566.

CSIRO 192,724

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Stereospecific Polymerization of α Olefins, by G. Natta, 9 pp.

FRENCH, per, Chemica e l'industria, Vol XXXVIII, No 2, 1956, pp 124-127.

SLA Tr 1502/56

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Applied Chemistry Stereospecific Catalyzers and Isotactical Polymers, by G. Natta, 36 pp.

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Viscosity Numbers and Molecular Weights of Fractionated Isotactical Polystyrenes, by G. Natta, F. Danusso, G. Moraglio, 7 pp.

GERMAN, per, Makromol Chem, Vol XX, 1956, pp 37-45.

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Crystal Structure of 1, 4-Cis-Polybutadiene and 1, 4-Cis-Polyisoprene, by G. Natta, P. Corradini, 6 pp.

OKUMAN, per, Angew Chem, Vol LXVIII, 1956, pp 615-616.

SLA 59-10603

Sci - Chemistry
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Preliminary Report on the Crystal Structure of Isotactic Poly-2-Butene, by G. Natta, P. Corradini, I. W. Bassi, 4 pp.

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SLA Tr 57-1175

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Process for the Polymerization of Acrylonitrile and Polymers Obtained Thereby, by G. Natta, G. dall' Asta, 6 pp.

FRENCH, patent, 1, 183,644, cl. 8 gr. 14, Internat. cl. C 08 f, appl, 1 Oct 57, granted 26 Jan 59, pub. 9 July 59 (Priority; Italy, 4 Oct 56) by Montecatini (Soc. Gen. Industria Mineraria e Chimica).

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Natta, G., Porri, L. and others.
ISOTACTIC TRANS-1,4 POLYMERS OF 1,3-PENTADIENE. 1961, 2250 words, 3 refs.
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Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fi[ziche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960 [ser. 8] v. 29, p. 257-264.

DESCRIPTORS: *Pentadienes, *Polymers, Synthesis, Polymerization.

(Chemistry--Organic, TT. v. 6, no. 10)

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I. Natta, G.
II. Porri, L.
III. CTS(Chem)-222
IV. Chemical Translating Service, Palo Alto, Calif.

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